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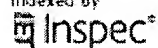
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- ☐ 1. Database extensions for complex domains
DeFazio, S.; Srinivasan, J.;
Data Engineering, 1996. Proceedings of the Twelfth In
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1 [Replication: DB2, Oracle, or Sybase?](#)

Doug Stacey

December 1995 **ACM SIGMOD Record**, Volume 24 Issue 4**Publisher:** ACM PressFull text available: [pdf\(726.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Is replication salvation or the devil in disguise? Here's what three implementers tell us

2 [Implementing crash recovery in QuickStore: a performance study](#)

Seth J. White, David J. DeWitt

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data SIGMOD '95**, Volume 24 Issue 2**Publisher:** ACM PressFull text available: [pdf\(1.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Implementing crash recovery in an Object-Oriented Database System (OODBMS) raises several challenging issues for performance that are not present in traditional DBMSs. These performance concerns result both from significant architectural differences between OODBMSs and traditional database systems and differences in OODBMS's target applications. This paper compares the performance of several alternative approaches to implementing crash recovery in an OODBMS based client-server architecture. ...

3 [Extending a persistent object framework to enhance enterprise application server performance](#)

John Grundy, Steve Newby, Thomas Whitmore, Peter Grundeman

January 2002 **Australian Computer Science Communications , Proceedings of the 13th Australasian database conference - Volume 5 ADC**

Volume 24 Issue 2

Publisher: Australian Computer Society, Inc., IEEE Computer Society PressFull text available:  pdf(795.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [by](#), [index terms](#)


High-volume transaction processing speed is critical for adequate performance of many enterprise application servers. We describe our experiences using an object oriented persistency framework to achieve greatly enhanced server response time through the transparent use of main-memory database technology. We took an application server whose data persistency is abstracted via a persistent object framework and replaced a version of the framework using a relational database for persistency with one that uses ...

Keywords: main-memory databases, persistent object frameworks, transaction processing performance

4 [Parallel database processing on a 100 Node PC cluster: cases for decision support query processing and data mining](#)



Takayuki Tamura, Masato Oguchi, Masaru Kitsuregawa


November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '97****Publisher:** ACM PressFull text available:  pdf(157.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [by](#), [index terms](#)

We developed a PC cluster system consists of 100 PCs. Each PC employs the 200MHz Pentium Pro CPU and is connected with others through an ATM switch. We picked up two kinds of data intensive applications. One is decision support query processing. And the other is data mining, specifically, association rule mining. With a high speed network, ATM technology has recently come to be a de facto standard. While other high performance network standards are also available, ATM networks are widely used from ...

5 [Database privacy and security: Threats to privacy in the forensic analysis of database systems](#)



Patrick Stahlberg, Gerome Miklau, Brian Neil Levine

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07****Publisher:** ACM PressFull text available:  pdf(457.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [by](#), [index terms](#)

The use of any modern computer system leaves unintended traces of expired sessions and remnants of users' past activities. In this paper, we investigate the unintentional persistence of data stored in database systems. This data can be recovered through forensic analysis, and it poses a threat to privacy.

First, we show how data remnants are preserved in database table storage, and

transaction log, indexes, and other system components. Our evaluation of several database systems reveals that d ...


Keywords: forensics, privacy, transparency

6 Sizing DB2 UDB[®] servers for business intelligence workloads

Ted J. Wasserman, Patrick Martin, Haider Rizvi

October 2004 **Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research CASCON '04**

Publisher: IBM Press

Full text available:  pdf(178.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Computer system sizing involves estimating the amount of hardware resources needed to support a new application that has not been run in a production environment. Sizing assumes that little system environment information or performance measurements are available for the specific workload, thus a sizing expert must use extrapolations from similar workloads, industry benchmarks, rules-of-thumb, and hardware performance guidelines to determine the type and quantity of resources required. In this ...

7 Recovery management in QuickSilver

 Rober Haskin, Yoni Malachi, Gregory Chan

February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6
1

Publisher: ACM Press

Full text available:  pdf(2.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


This paper describes QuickSilver, developed at the IBM Almaden Research Center, which uses atomic transactions as a unified failure recovery mechanism for a client-server structured distributed system. Transactions allow failure atomic related activities at a single server or at a number of independent servers. Rather than bundling transaction management into a dedicated language or recovery object manager, Quicksilver exposes the basic commit protocol and log recovery ...

8 Client-server computing in mobile environments

 Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press


Full text available:  pdf(233.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime


research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various ways ...

Keywords: application adaptation, cache invalidation, caching, client/server dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system applications

9 Crash recovery in client-server EXODUS

 Michael J. Franklin, Michael J. Zwillig, C. K. Tan, Michael J. Carey, David J. DeWitt
June 1992 **ACM SIGMOD Record , Proceedings of the 1992 ACM SIGMOD international conference on Management of data SIGMOD '92**, Volume 21 Issue 2

Publisher: ACM Press


Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we address the correctness and performance issues that arise in implementing logging and crash recovery in a page-server environment. The results from two characteristics of page-server systems: 1) the fact that data is modified and cached in client database buffers that are not accessible by the server, and 2) the performance and cost trade-offs that are inherent in a client-server environment. We describe a recovery system that we have implemented on the client-server ...

10 Integrating an object server with other worlds

 Alan Purdy, Bruce Schuchardt, David Maier
January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.61 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Object-oriented database servers are beginning to appear on the commercial market in response to a demand by application developers for increased modularity in database systems. Before these new servers can enhance the productivity of application designers, systems designers must provide simple interfaces to them from both procedural and object-oriented languages. This paper first describes a successful interface between an object server and two procedural languages (C and Pascal). Because ...

11 An overview of data warehousing and OLAP technology

 Surajit Chaudhuri, Umeshwar Dayal
March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1

Publisher: ACM Press

Full text available:  pdf(101.60 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index](#)

KB)terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional on-line transaction processing applications. This paper provides an overview ...

12 BASE: Using abstraction to improve fault tolerance



Miguel Castro, Rodrigo Rodrigues, Barbara Liskov

August 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 : 3

Publisher: ACM Press

Full text available: [pdf\(438.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software errors are a major cause of outages and they are increasingly exploited in malicious attacks. Byzantine fault tolerance allows replicated systems to mask some software errors but it is expensive to deploy. This paper describes a replication technique, BASE, which uses abstraction to reduce the cost of Byzantine fault tolerance and to improve its ability to mask software errors. BASE reduces cost because it enables reuse of off-the-shelf service implementations. It improves availability ...

Keywords: Byzantine fault tolerance, N-version programming, asynchronous systems, proactive recovery, state machine replication

13 Implementing sorting in database systems



Goetz Graefe

September 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 3

Publisher: ACM Press

Full text available: [pdf\(518.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)

Most commercial database systems do (or should) exploit many sorting techniques that are publicly known, but not readily available in the research literature. These techniques improve both sort performance on modern computer systems and the ability to adapt gracefully to resource fluctuations in multiuser operations. This survey collects many of these techniques for easy reference by students, researchers, and product developers. It covers in-memory sorting, disk-based external sorting, and constraints ...

Keywords: Key normalization, asynchronous read-ahead, compression, dynamic memory resource allocation, forecasting, graceful degradation, index operation, key conditioning, nested iteration

14 Concurrency control in collaborative hypertext systems

Uffe Kock Wiil, John J. Leggett

December 1993 **Proceedings of the fifth ACM conference on Hypertext
HYPERTEXT '93****Publisher:** ACM PressFull text available: pdf(1.05
MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: collaborative work, concurrency control, distributed hypertext systems, events, extensibility, hyperbases, open architectures, supporting technologies, transaction management, user-controlled locking, version control

15 BASE: using abstraction to improve fault tolerance

Rodrigo Rodrigues, Miguel Castro, Barbara Liskov

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the
eighteenth ACM symposium on Operating systems principles:
SOSP '01**, Volume 35 Issue 5**Publisher:** ACM PressFull text available: pdf(1.47
MB)Additional Information: [full citation](#), [abstract](#), [references](#),
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Software errors are a major cause of outages and they are increasingly exploited in malicious attacks. Byzantine fault tolerance allows replicated systems to mask some software errors but it is expensive to deploy. This paper describes a replication technique, BASE, which uses abstraction to reduce the cost of Byzantine fault tolerance and to improve its ability to mask software errors. BASE reduces cost because it enables reuse of off-the-shelf service implementations. It improves availability ...

16 Design of the Mnome persistent object store

J. Eliot B. Moss

April 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 4
Publisher: ACM PressFull text available: pdf(3.22
MB)Additional Information: [full citation](#), [abstract](#), [references](#),
[index terms](#), [review](#)

The Mnome project is an investigation of techniques for integrating programming language and database features to provide better support for cooperative, information-intensive tasks such as computer-aided software engineering. The project strategy is to implement efficient, distributed, persistent programming languages. We report here on the Mnome persistent object store, a fundamental component of the project, discussing its design and initial prototype. Mnome objects

17 XML: An XML transaction processing benchmark

Matthias Nicola, Irina Kogan, Berni Schiefer

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference Management of data SIGMOD '07****Publisher:** ACM PressFull text available: pdf(241.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)

XML database functionality has been emerging in "XML-only" databases as well as in the major relational database products. Yet, there is no industry standard database benchmark to evaluate alternative implementations. The research community has proposed several benchmarks which are all useful in their respective scope, such as evaluating XQuery processors. However, they do not evaluate a database system in its entirety and do not represent all relevant characteristics of a real-world ...

Keywords: SQL/XML, TPoX, XML, XQuery, benchmark, database**18** Session 3: User-level transactional programming in Haskell

Peter Thiemann

September 2006 **Proceedings of the 2006 ACM SIGPLAN workshop on Haskell Haskell '06****Publisher:** ACM PressFull text available: pdf(212.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)

Correct handling of concurrently accessed external resources is a demanding problem in programming. The standard approaches rely on database transaction or concurrency mechanisms like locks. The paper considers two such resource types: global variables and databases, and defines transactional APIs for them in Haskell. The APIs provide a novel flavor of *user-level transactions* which are particularly suitable in the context of web-based systems. This suitability is demonstrated by providing a simple ...

19 Byzantine fault tolerance: Tolerating byzantine faults in transaction processing systems using commit barrier scheduling

Ben Vandiver, Hari Balakrishnan, Barbara Liskov, Sam Madden

October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07****Publisher:** ACM PressFull text available: pdf(390.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)

This paper describes the design, implementation, and evaluation of a replication scheme to handle Byzantine faults in transaction processing database systems. The scheme compares answers from queries and updates on multiple replicas with unmodified, off-the-shelf systems, to provide a single database that is Byzantine fault-tolerant.

fault tolerant. The scheme works when the replicas are homogeneous, but it allows heterogeneous replication in which replicas come from different vendors. Heterogeneous ...

Keywords: byzantine fault tolerance, databases, state machine replication

20 [The OO7 Benchmark](#)



Michael J. Carey, David J. DeWitt, Jeffrey F. Naughton

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**,
Volume 22 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#),
[index terms](#)

The OO7 Benchmark represents a comprehensive test of OODBMS performance. In this paper we describe the benchmark and present performance results from implementation in three OODBMS systems. It is our hope that the OO7 Benchmark will provide useful insight for end-users evaluating the performance of OODB systems; we also hope that the research community will find that OO7 provides database schema, instance, and workload that is useful for evaluating new techniques and algorithms for ...

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